

FIGURE 1

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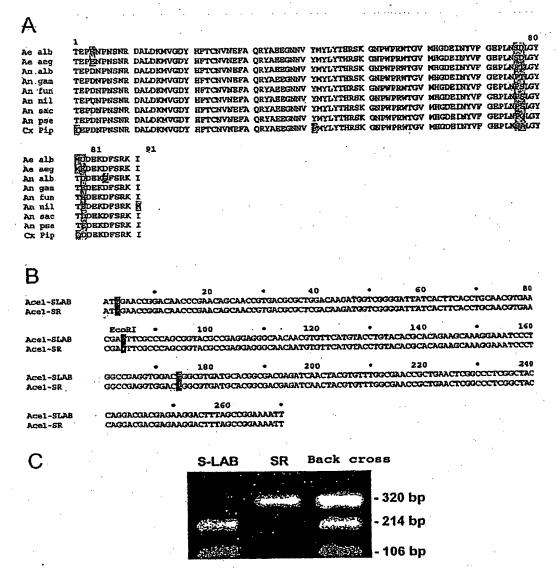
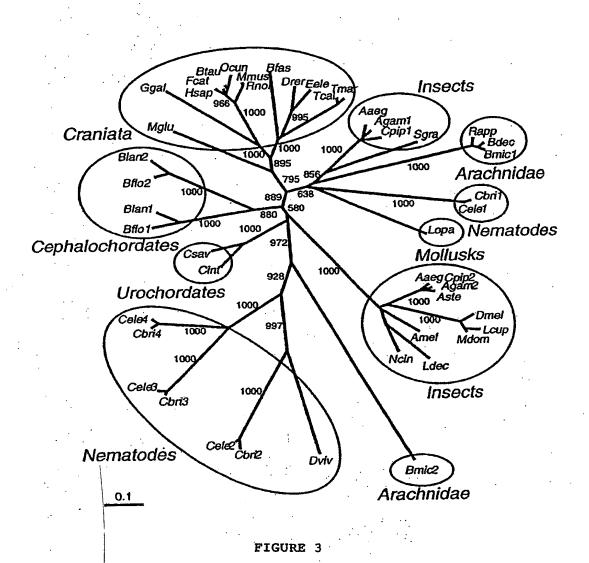
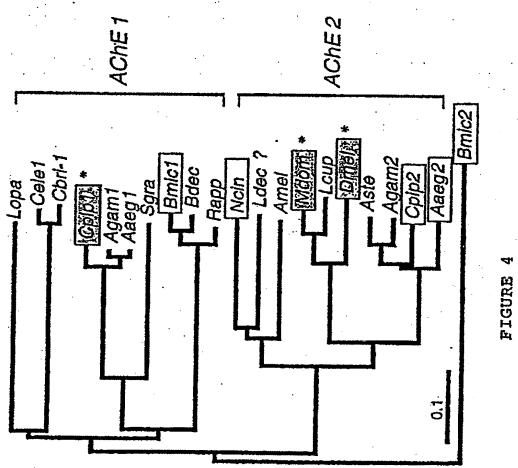


FIGURE 2





SR S-Lab	l Meirglitrl Meirglitrl	LGPCHLRHLI LGPCHLRHLI	LCSLGLYSIL LCSLGLYSIL	VQSVHCRHHD VQSVHCRHHD	igssvaholg igssvaholg	SKYSQSSSLS SKYSQSSSLS	SSSQSSSSLA	80 EEATLNKDSD EEATLNKDSD
SR -S-LAB	Verlexiche Verlexiche 87	DSVRIVDAEL DSVRIVDAEL	GTLERERIHS GTLEREHIHS	TTTRRRGLTR TTTRRRGLTR	RESSEDATOS RESSEDATOS	DPLVITTDKG DPLVITTDKG	Kirgitleap Kirgitleap	160 SGKKVDAMMG SGKKVDAMMG
SR S-LAB	161 IPYAQPPLGP IPYAQPPLGP	Lrfrhprpae Lrfrhprpae	Rutgvlhate Rutgvlhate	BBH2CAGIAD BBH2CAGIAD	TVFGDFPGAT TVPGDFPGAT	Manbaldppe Wandaldppe	DCTAINAAAb	240 RPRPKHAAVM RPRPKHAAVM
SR S-Lab	241 Lwifgggeys Lwifgggeys	GTATLDVYDH GTATLDVYDH	RTLASEENVI RTLASEENVI	VVSLQYRVAS VVSLQYRVAS	LGFLFLGTPE LGFLFLGTPE	Apgnagledq Apgnagledq	NLALRYVRON NLALRYVRON	320 IHRFGGDPSR IHRFGGDPSR
SR S-LAB	321 VTLFGESAGA VTLFGESAGA	vsvslhlisa vsvslhlisa	LSRDLFQRAI LSRDLFQRAI	LQSGSPTAPW LQSGSPTAPN	ALVSREEATL ALVSREEATL	ralrlaeavn Ralrlaeavn	CPHDATKLSD CPHDATKLSD	400 AVECLRTEDP AVECLRTEDP
SR 5-lab	401 Nelvonewg? Nelvonewg?	LGICEPPPVP LGICEPPPVP	VVDGAFLDET VVDGAFLDET	Porslasgrf Porslasgrf	KKTDILTGSH KKTDILTGSN	TEEGYYFIIY TEEGYYFIIY	YLTELLRKEE YLTELLRKEE	490 GVTVTREEFL GVTVTREEFL
SR S-LAB	481 Qavrelnpyy Qavrelnpyy	NGAARQAIVF NGAARQAIVF	EYTDWIEPDN EYTDWIEPDN	PNSNRDALDK PNSNRDALDK	MVGDYHFTCH MVGDYKFTCN	vnefaqryae Vnefaqryae	egnnvpmyly Egnnvpmyly	560 Thrskgnpup Thrskgnpup
sr S-lab	561 RHTGVMHGDE RHTGVMHGDE	inyvpgepln Inyvpgepln	Salgyodek Salgyodek	DFSRKIMRYW DFSRKIMRYW	Snfaktgnén Snfaktgnen	PSTPSVDLPE PSTPSVDLPE	WPKHTANGRH WPKHTANGRH	640 YLELGLATTF YLELGLATTF
SR S-LAB	VGRGPRLRQC VGRGPRLRQC	AFWKKYLPQL AFWKKYLPQL	Vaatshlqvt Vaatsalqvt	PAPSVPCESS PAPSVPCESS	STSYRSTLLL STSYRSTLLL	IVTLLLVTRF IVTLLLVTRF	VO2 KI KI	

Figure 5

S-Lab SR	M E I R G L I T R L L G P C H L R H L I L C S L G L Y ATGGAGATCCGAGGCCTAATAACCCGATTACTGGGTCCATGTCACCTGCGACATCTGATACTGTGCAGTTTGGGGCTGTA
S-LAB	160 S I L V Q S V H C R H H D I G S S V A H Q L G S K Y S CTCCATCCTCGTGCAGTCGATCGCTGGCATCATGACATCGGTAGTTCGGTGGCACACCAGCTAGGATCGAAATACT
S-LAB SR	Q S S S L S S S S S S S S L A E E A T L N K D S D CACAATCATCCTCGTTATCGTCATCCTCGCAATCGTCATCGTCGTTAGCTGAAGAGGCCACGCTGAATAAAGATTCAGAT
ș-lab Sr	320 A F F T P Y I G H G D S V R I V D A E L G T L E R E H GCATTTTTTACACCATATATAGGTCACGGAGATTCTGTTCGAATTGTAGATGCCGAATTAGGTACATTAGAGCGCGAGCA
S-LAB SR	I H S T T T R R R G L T R R E S S S D A T D S D P L V TATCCATAGCACTACGACCCGGCGGGGGGGGGGGGGGGG
S-LAB SR	Primer Ex3dir 480 I T T D K G K I R G T T L E A P S G K K V D A W M G ICATAACGACGACAAGGCCAAAATCCGTGGAACGACACTGGAAGCGCCTAGTGGAAGGAGGCGCATGGATGG
S-LAB SR	560 I P Y A Q P P L G P L R F R H P R P A E R W T G V L N ATTCCGTACGCGCAGCCCCGCTGGGTCCGGTTTCGACATCCGCGACAGATGACCGGTTGCTGAA
S-LAB SR	A T K P P N S C V Q I V D T V F G D F P G A T M N N P CGCGACCAACCCCCCAACTCCTGCGTCCAGATCGTGGACCCCGTGTTCGGTGGACCCCCCCC
S-LAB SR	N T P L S E D C L Y I N V V V P R P R P K N A A V M CGAACACCGCTCTCGGAGGACTGTCTGTACATCAACGTGGTCGTGCCACGGCCCAAGAATGCCGCCGTCATG
S-LAB SR	LWIFGGFFYSGTATLDVYDHRTLASEE CTGTGGATCTTCGGGGGTTCTACTCCGGGACTGCACGCTGGACGTGACGACGACGACGCTGGACGTGACGACGACGACGACGACGACGACGACGACGACGACGACG
S-LAB SR	N V I V V S L Q Y R V A S L G F L F L G T P E A P G N GAACGTGATCGTGCAGGTACCGTGTCGCAAGTCTTGGGTTCTCTTCCTGGGCACACCGGAGGCACCCGGTA
S-LAB SR	A G L F D Q N L A L R W V R D N I H R F G G D P S R ACGCGGGGCTGTTTGATCAGAACCTGGCACTGAGATGGGTCCGCGACAACATCCACCGGTTCGGCGGTGACCCCTCGCGG Primer Ex3rev
S-Lab Sr	V T L F G E S A G A V S V S L H L L S A L S R D L F Q GTCACACTGTTCGGCGAGAGCGCCCGGAGCGGTCTCGGTTTCGCTGCACCTGTTCGCGGGACCTGTTCCA

Figure 6A

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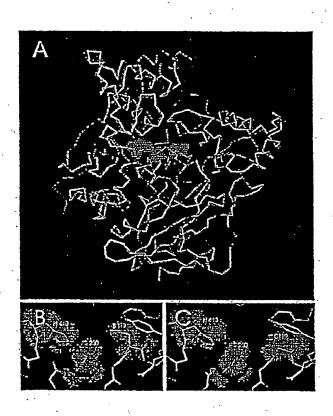
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S-LAB SR	R A I L Q S G S P T A P W A L V S R E E A T L R A L R GCGGGCCCATCCTCCAGAGTGGCTCCCCGACGGCCCCGTGGGCGCTTTCGCGCGAAGAAGCTACGCTTAGAGCTCTTC
S-LAB SR	L A E A V N C P H D A T K L S D A V E C L R T K D P GTCTGGCCGAGGCCGACCAAGGATGCGACCAAGGATCCG T
S-LAB SR	N E L V D N E W G T L G I C E F P F V P V V D G A P L AACGAGCTGGTCGACAACGAGTGGGGCACCCTCCT
S-LAB SR	D E T P Q R S L A S G R F K K T D I L T G S N T E E G CGATGAGACACCGCAGCGTTCGTTGGCCAGCGGCGCTTCAAGAAAACGGACATCCTGACCGGCAGCAACACCGAGGAGG
S-LAB SR	Y Y F I I Y Y L T E L L R K E E G V T V T R E E F L GTTACTACTTATCATTTACCAACTGCTCAGGAAAGAGGAAGGGGTCACGGTAACACGCGAGGATTCCTA
S-LAB SR	Q A V R E L N P Y V N G A A R Q A I V F E Y T D W I E CAGGCCGTCCGGGAGTTGAATCCGTACGTGAACGGTGCCGCCGGCAGGCCATCGTGTTCGAGTACACCGACTGGATTGA
S-LAB SR	P D N P N S N R D A L D K M V G D Y H F T C N V N E F ACCGGACACCCGAACACCACCGGACACCGCGACCGCAACGCGACCGAACGCAACCACGAACACACGCAACGCAACGCAACGCAACGCAACGCAACGCAACGCAACACACACACACACACACACACACACACACACACACAC
S-LAB Sr	A Q R Y A E E G N N V F M Y L Y T H R S K G N P W P TCGCCCAGCGGTACGCCGAGGAGGCAACAACGTGTTCATGTACCTGTACACGCACAGAGCAAAGGAAATCCCTGGCCG
S-LAB SR	R W T G V M H G D E I N Y V F G E P L N S A L G Y Q D AGGTGGACCGGCTGATGCACGAGACCACGAACCCGCTGAACTCGGCCCTCGGCTACCAGGA
S-LAB SR	D E K D F S R K I M R Y W S N F A K T G N P N P S T P CGACGAGAAGACTTTGCCAAGACTGGCAATCCCAACCCGACTACGC
S-LAB SR	1920 S V D L P E W P K H T A H G R H Y L E L G L N T T F CGAGCGTGGACCTGCCCGAATGGCCCAAGCACCACCGCCCACGGACGACCTATCTGGAGCTGGGACTGAACACGACCTTC
S-LAB SR	V G R G P R L R Q C A F W K K Y L P Q L V A A T S N L GTGGGACGGGCCCACGATTGCGGCATTCTGGAAGAATATTTGCCGCAACTAGTAGCAGCTACCTCTAACCT
S-LAB SR	Q V T P A P S V P C E S S S T S Y R S T L L L I V T L CCAAGTAACTCCCGCGCCTAGCGTACCTTGCGAAAGCAGCTCAACATCTTATCGATCCACTCTACTTCTAATAGTCACAC
S-LAB SR	2109 L L V T R F K I + TACTITIAGTAACGCGGTTCAAGATTTAA

Figure 6B

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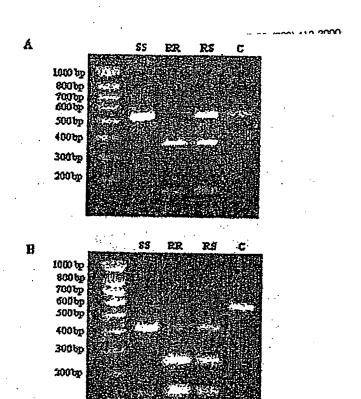


Figure 8

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KISUMU YAO	1 GANTGCGCATTGTTGCGATAGATTGAATTTCCTTGGTTGTTGTTGTTGTTGTTTCTTTTGACATGTTTGTT
KISUMU YAO	160 A F F T P Y I G H G E S TTTTCTTCTCTCTCTCTCT-CTGTGGTTCCAACATTTCAGACGCATTTTTTACACCATATATAGGTCACGGTGAGT
KISUMU YAO	N R I I D A E L G T L E R V H S G A T P R R R G L T CCCTACGAATTATAGATGCCGACGCTCTGACGACCATGCACCACGCGCGACGCGCGCG
KISUMU YAO	R R E S N S D AGGCGCGAGTCCAACTCGGGTAAGTACGCGATTGGAAGTGGGGGGACGTTTACCCTGCCGTGTACTACAATGCACTTTAC
Kisumu Yao	A N D N D P L V V N T D K G R I R G I CCCCACGCACACGCACACGCACGCACGCACCACGCCACCA
KISUMU YAO	T V D A P S G K K V D V W L G I P Y A Q P P V G P L R TACGGTCGATGCGCCCAGCCCCAGCCCCAGCCCCGTCCGGCCCAGCCCCGTCCGGCCCAGCCCCGTCCGGCCCGTCCGGCCCGTCCGGCCCGTCCGGCCCGTCCGGCCCGTCCGGCCCGGTCCGGCCCGGCCGGTCCGGCCCGGCCGGTCCGGCCGGTCCGGCCG
KISUMU YAO	FRHPRPAEKWTGVLNTTTPPNSCVQI GGTTCCGTCATCCGCGGCCGAAAAGTGGACCGCCGTGCTGAACACCGCCCAACACCTGCGTGCAGATC
KISUMU YAO	V D T V F G D F P G A T M W N P N T P L S B D C L Y I GTGGACACCGTGTTCGGCGACTTCCCGGGCGACCATGTGGAACCCGAACACGCCCCTGTCCGAGGACTGTCTGT
720 KISUMU YAO	N V V A P R P R P K N A A V M L W I F G G F Y S G T TAACGTGGTGGCACCCCGGCCCCAAGAATGCGGCCGTCATGCTGTGGATCTTCGGCGGCGCGCTTCTACTCCGGCA
Kisumu Yao	9 800 A T L D V Y D H R A L A S E E N V I V V S L Q Y R V CCGCCACCCTGGACGACGACGACGACGACGACGACGACGACGACGACGAC
KISUMU YAO	A S L G F L F L G T P E A P G N A G L F D Q N L A L R GCCAGTCTGGGCTTCCTGTTCTGGCACCCCGGAAGCGCCGGGCAATGCGGGACTGTTCGATCAGAACCTTGCGCTACG
KISUMU YAO	960 GTAGGTGTCTTTGCATGGGTGAATGAGGGTATAGTATTCTAACGAGGTGCTCTTCTTCCCATCACTTCTTGGGAGTCAGCG-TTCTA-T
KISUMU YAO	W V R D N I H R F G G D P S R V T L F G E S A G A V S TGGGTGCGGACACATTCACCGGTTCGGTGGTGATCCGTCGCGTGACACTGTTCGGCGAGAGTGCCGGTGCCGTCTC
KISUMU YAO	V S L H L L S A L S R D L F Q R A I L Q S G S P T À P GGTGTCGCTGCTGCCGCCCTGTCCCGCGATCTTCCAGCGGGCATCTGCAGAGCGGCTCGCCGACGGCAC T
	Primer Ex3AGrev 1200 WALVSREEATLR
Kisumu Yao	CGTGGGCATTGGTATCGCGCGAGGAAGCCACGCTAAGGTACGTGCCAGCTGCTGCTTTCCCCAAACCACCAACCGCGAC

Figure 9A

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KISUMU YAO	AGCTCACACAACCTCTTTTCCTTCGCTCCAGAGCACTGCGCTTGGCCGAGGCGGTCGGCTGCCCGAG
	E P S K L S D A V E C L R G K D P H V L V N N E W G T GAACCGAGCAAGCAAGCGAGGAGGAGGAGGAGGAGGAGGA
KISUMU YAO	L G I C E F P F V P V V D G A F L D E T P Q R S L A S GCTCGGCATTGCGACGTCGCTCGCCCAGCGTTCGCCCCA
KISUMU YAO	G R F K K T E I L T G S N T E E G Y Y F I I Y Y L T GCGGGGGGTTCAAGAAGACGAGAACACGGAGGAGGGCTACTACTACTACTACTACTACCTGACC
KISUMU YAO	E L L R K E E G V T V T R E E F L Q A V R E L N P Y V GAGCTGCTGCGCAAGGAGGACCCTGACCCGTACGC
KISUMU YAO	N G A A R Q A I V F B Y T D W T B P D N F N S N R D A GAACGGGCCCGCCCGCCCGACCGCCCGACCACCACCACCA
KISUMU YAO	L D K M V G D Y H F T C N V N E F A Q R Y A E E G N CGCTGGACAGAGTGGGGGGAGGAGGGCGAACGCGGAAGGAGGAGGGCGAACGCGGAAGGAGG
KISUMU YAO	1840 N V Y M Y L Y T H R S K G N P W P R W T G V M H G D E AACGTCTACATGTACTACGCCACCGCCACCAAAGGCAACCCGTGGCCGCCGTGGACGGCCGTGATGCACGGCGACGA
KISUMU YAQ	I N Y V F G E P L N P T L G Y T E D E K D F S R K I M GATCAACTACGTGTTCGGCGAACCCCTCACCCCTCGGCTACACCGAGGACGAGGAAAAACACTTTAGCCGGAACATCA
KISUMU YAO	R Y W S N F A K T G TGCGATACTGGTCTAACTTTGCCAAAACCGGGTAAGTGTGTGT
KISUMU YAO	N P N P N T A S S B F P E W P K H T AACGCCTTCTCTCTTCAACAGCAATCCAAATCCCAACACGGCCAGCAGCGGAATTCCCGAGTGGCCCAAGCACAA-AGCGTCT
KISUMU YAO	2160 A H G R H Y L E L G L N T S F V G R G P R L R Q C A CCGCCCACGGACGCCACACTACTCGACACGCTCGACGCCCCACGCTTGAGGCAGTGGCC
KI SUMU YAO	F W K K Y L P Q L V A A T S TTCTGGAAGAAGTACCTTCCCCAGCTAGTTGCAGCTACCTGTAAGTCTCGT-GCAGCGCTTGAAATCCTCTCCCGCATCC
KISUMU YAO	N L P G TCAACAGGGTCCAGGTTGCAATAACAAATGTATCTCTCTC
KISUMU YAO	PAPPSEPCESSAFFYRPDLIVLLVSL GGCCAGCACCGCCCAGTGAACCGGCAAAGCAGCGCGCATTTTTTTACCGACCTGATCTGATCGTGCTGCTGGTGTCCTG
KISUMU YAO	L T A T V R F I Q * CTTACGGCGACCGTCAGATTCATACATAATTACTACCCCATCCAT
KISUMU YAO	ACAAATTTTCCTAACCAATTCCCAACCCCTTTAGAGCAGAACCGAGGGGGAGAGATAGGACT

Figure 9B

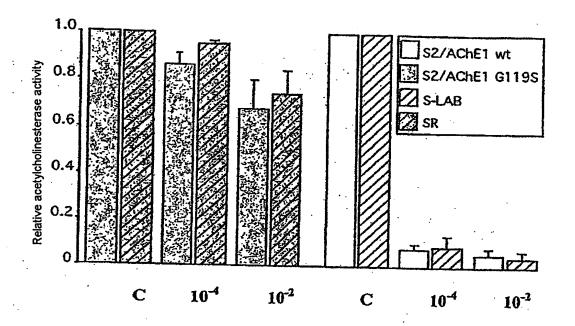


Figure 10

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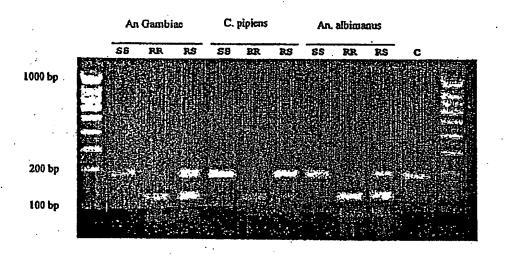


FIGURE 11

Assay for inhibition with propoxur

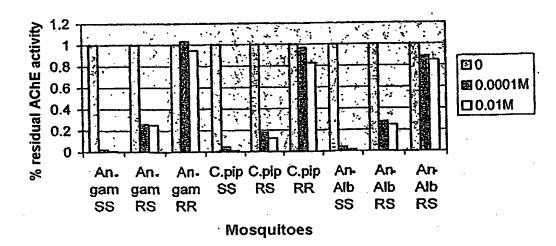


FIGURE 12

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FIGURE 13

>An. albi. "s"
CCGGGGGCGACTATGTGGAACCCARATACGCCACTCTCGGAGGACTGCCTGTACATCAACGTGGTGGCGCCGAGGCCACACGCCCA
AGAATGCTGCCGTCATGCTGTGGATCTTCGGCGGTGGCTTCTACTCCGGTACGGCCACACTGGACGTGTACGATCACCGGGCGCT
CCCCTCGGAAGAGAACGTTATCGT

>An. alb1. "R"
CCGGGGCGACTATGTGGAACCCAAATACGCCACTCTCGGAGGACTGCCTGTACATCAACGTGGTGGCGCCGAGGCCACGCCCA
AGAATGCTGCCGTCATGCTGTGGATCTTCGGCGGTAGGTTCTACTCCGGTACGCCACACTGGACGTGTACGATCACCGGGCCGC
CCCCTCGGAAGAGACGTTATCGT

FIGURE 14